VSR CIVIL INFRA PVT. LTD.

Engineering Project Consultants

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 11.12.2019

TEST REPORT

CLIENT	:	Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
AGENCY	:	M/s. Technical Manager (West), KRIDL, Bengaluru
NAME OF THE WORK	:	Construction of RCC drains and culverts at Brundavan layout, Hariraja layout, Hanumappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
SAMPLE ID	:	Cement (ACC – OPC 53 Grade)
DATE OF MANUFACTURE	:	November - 2019
DATE OF TESTING	:	09.12.2019 to 11.12.2019
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	450 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

Note:

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಕ.ಪ.ಅ.ಕ. ಬೆಂಗಳೂರು-106

VSR CIVIL INFRA PVT. LTD. BANGALORE

#552/B, 6th Main Road, Hanumanthanagar, Bengaluru - 560 019 Cell : 98452 30975
Phone : 080-26604411 E-mail : veena.rai830@gmail.com

VSR CIVIL INFRA PVT. LTD.

Engineering Project Consultants

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date 11.12.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.
Agency : **M/s. Technical Manager (West), KRIDL, Bengaluru**
Name of Work : Construction of RCC drains and culverts at Brundavan layout, Hariraja layout, Hanumappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division

Date of Testing 11.12.2019

Material : Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	55	5.50	5.50	94.5	90-100
2.36	141	14.10	19.60	80.4	75-100
1.18	153	15.30	34.90	65.1	55-90
600 Micron	174	17.40	52.30	47.7	35-59
300 Micron	263	26.30	78.60	21.4	8-30
150 Micron	175	17.50	96.10	3.9	0-10

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VSR CIVIL INFRA PVT. LTD.

Engineering Project Consultants

Job No.: CSC/BBMP/KRIDL/W.No.26/2019-20

Date 11.12.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West), KRIDL, Bengaluru**

Name of Work : Comprehensive development of roads and drains at Shanthi layout main road and surrounding area cross roads in Ramamurthynagara in Ward No.26 ,BBMP, Bangalore.

Date of Testing 11.12.2019

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	465	3.10	3.10	96.90	95-100
20	5365	35.77	38.87	61.13	30-70
10	3621	24.14	63.01	36.99	10-35
4.75	4526	30.17	93.18	6.82	0-5

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Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 11.12.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West), KRIDL, Bengaluru**

Name of Work : Comprehensive development of roads and drains at Shanthi layout main road and surrounding area cross roads in Ramamurthynagara in Ward No.26 ,BBMP, Bangalore.

Date of Testing 11.12.2019

Material : 20mm Aggregates

Total wt. of aggregates in gms = **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	121	2.4	2.4	97.6	95-100
10	2254	45.1	47.5	52.5	25-55
4.75	2365	47.3	94.8	5.2	0-10

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VSR CIVIL INFRA PVT. LTD.

Engineering Project Consultants

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 16.12.2019

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of Work : Construction of RCC drains and culverts at Brundavan layout, Hariraja layout, Hanumappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division

Sample Identification : 8mm,10mm,12mm Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 16.12.2019

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.33	536	544	13
2	Fe 500	10	0.65	548	558	14
3	Fe 500	12	0.84	563	574	14.5

Remarks:

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VSR CIVIL INFRA PVT. LTD.

Engineering Project Consultants

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 05.01.2020

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	**Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.
Contractor	:	**M/s. Technical Manager (West),** KRIDL, Bengaluru
Name of Work	:	Construction of RCC drains and culverts at Brundavan layout, Harinaja layout, Hanumappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division
No.of Sample Tested	:	03
Date of Testing	:	05.01.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	170.00	3.118	2335.27	1.70	0.960	142.50	18.14	19.60	18.81	23.51
2	100.00	173.00	3.231	2377.94	1.73	0.960	138.60	17.65	19.06	18.30	22.87
3	100.00	175.00	3.291	2394.42	1.75	0.960	140.30	17.86	19.29	18.52	23.15

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VSR CIVIL INFRA PVT. LTD.

Engineering Project Consultants

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 20.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Construction of RCC drains and culverts at Amba Bhavani layout, Chowdappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.12.2019	20.01.2020	8.225	512.6	22.78
2	23.12.2019	20.01.2020	8.231	532.4	23.66
3	23.12.2019	20.01.2020	8.241	503.6	22.38

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VSR CIVIL INFRA PVT. LTD.

Engineering Project Consultants

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 30.12.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Construction of RCC drains and culverts at Amba Bhavani layout, Chowdappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.12.2019	30.12.2019	8.165	365.2	16.23
2	23.12.2019	30.12.2019	8.174	352.4	15.66
3	23.12.2019	30.12.2019	8.182	348.1	15.47

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Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 30.12.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Construction of RCC drains and culverts at Amba Bhavani layout, Chowdappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.12.2019	30.12.2019	8.154	355.6	15.80
2	23.12.2019	30.12.2019	8.162	362.4	16.11
3	23.12.2019	30.12.2019	8.178	358.1	15.92

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VSR CIVIL INFRA PVT. LTD.

Engineering Project Consultants

ob No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 31.12.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Construction of RCC drains and culverts at Amba Bhavani layout, Chowdappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2019	31.12.2019	8.174	356.2	15.83
2	24.12.2019	31.12.2019	8.163	362.4	16.11
3	24.12.2019	31.12.2019	8.154	371.4	16.51

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ob No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 21.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Construction of RCC drains and culverts at Amba Bhavani layout, Chowdappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2019	21.01.2020	8.213	506.3	22.50
2	24.12.2019	21.01.2020	8.225	523.4	23.26
3	24.12.2019	21.01.2020	8.236	512.7	22.79

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ob No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 21.01.2020

TEST REPORT ON CONCRETE CUBES

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gency	: **M/s. Technical Manager (West),** KRIDL, Bengaluru
lame of the work	: Construction of RCC drains and culverts at Amba Bhavani layout, Chowdappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.
ample ID	: Cement Concrete
ize of cubes	: 150mmx150mmx150mm
ross Sectional Area	: 22500 mm^2
echnical Reference	: IS: 516-1959 (Reaffirmed 2008)
rade of Concrete	: M_{20}
ompressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2019	21.01.2020	8.232	503.2	22.36
2	24.12.2019	21.01.2020	8.241	523.4	23.26
3	24.12.2019	21.01.2020	8.265	512.8	22.79

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VSR CIVIL INFRA PVT. LTD.

Engineering Project Consultants

No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 31.12.2019

TEST REPORT ON CONCRETE CUBES

ent : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

ency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

me of the work : Construction of RCC drains and culverts at Amba Bhavani layout, Chowdappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

nple ID : Cement Concrete

e of cubes : 150mmx150mmx150mm

oss Sectional Area : 22500 mm^2

chnical Reference : IS: 516-1959 (Reaffirmed 2008)

ade of Concrete : M_{20}

mpressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.12.2019	31.12.2019	8.165	355.6	15.80
2	24.12.2019	31.12.2019	8.174	342.5	15.22
3	24.12.2019	31.12.2019	8.163	351.8	15.64

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ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

VSR CIVIL INFRA PVT. LTD. BANGALORE

#552/B, 6th Main Road, Hanumanthanagar, Bengaluru - 560 019 Cell : 98452 30975
Phone : 080-26604411 E-mail : veena.rai830@gmail.com

VSR CIVIL INFRA PVT. LTD.

Engineering Project Consultants

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 22.01.2020

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.
Agency	: **M/s. Technical Manager (West),** KRIDL, Bengaluru
Name of the work	: Construction of RCC drains and culverts at Amba Bhavani layout, Chowdappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.12.2019	22.01.2020	8.232	501.3	22.28
2	25.12.2019	22.01.2020	8.224	492.6	21.89
3	25.12.2019	22.01.2020	8.261	515.4	22.91

Note:

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Date: 01.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Construction of RCC drains and culverts at Amba Bhavani layout, Chowdappa layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.12.2019	01.01.2020	8.174	356.2	15.83
2	25.12.2019	01.01.2020	8.182	362.1	16.09
3	25.12.2019	01.01.2020	8.165	371.4	16.51

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Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.12.2019	22.01.2020	8.254	502.3	22.32
2	25.12.2019	22.01.2020	8.232	523.6	23.27
3	25.12.2019	22.01.2020	8.241	512.4	22.77

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VSR CIVIL INFRA PVT. LTD.

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o No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 02.01.2020

TEST REPORT ON CONCRETE CUBES

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rade of Concrete	: M_{20}
ompressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.12.2019	02.01.2020	8.154	352.6	15.67
2	26.12.2019	02.01.2020	8.162	358.2	15.92
3	26.12.2019	02.01.2020	8.154	351.2	15.61

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ompressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.12.2019	02.01.2020	8.154	355.2	15.79
2	26.12.2019	02.01.2020	8.162	361.4	16.06
3	26.12.2019	02.01.2020	8.173	346.1	15.38

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#552/B, 6th Main Road, Hanumanthanagar, Bengaluru - 560 019 Cell : 98452 30975
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TEST REPORT ON CONCRETE CUBES

: **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

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.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
	26.12.2019	02.01.2020	8.165	352.6	15.67
	26.12.2019	02.01.2020	8.174	348.1	15.47
	26.12.2019	02.01.2020	8.162	362.5	16.11

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Engineering Project Consultants

b No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 23.01.2020

TEST REPORT ON CONCRETE CUBES

lient : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

gency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

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ross Sectional Area : 22500 mm^2

echnical Reference : IS: 516-1959 (Reaffirmed 2008)

rade of Concrete : M_{20}

ompressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.12.2019	23.01.2020	8.215	512.6	22.78
2	26.12.2019	23.01.2020	8.236	523.4	23.26
3	26.12.2019	23.01.2020	8.245	501.3	22.28

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